Rec'd Jan 21st
Ans'd Feb 13

Davenport Jan'y 19th 1863

My Dear Dr

Your interesting letter of
6th / 14th inst makes some amends for
your long silence — That figure of
J. barbellata is fine, good name.
I fear you took too much in earnest
my joking or rather nonsense about
"Tokawia" "I really meant nothing
and furthermore agree most cordially
in your proposal, to which (if I can
be carried out) I would say (Yes!
a 100 times). Later information
satisfies me that the "Pond lily" is
a Nuphar, it is an aquatic, floating
in deep? water, "leaf like the Pond
lily of the States" flower globular
inclosing & concealing the short
stamens. &c The exact locality —
Johns Lake near Old Hill about
40 miles N W of Denver
So much for Stylisa Shawii.

MISSOURI BOTANICAL GARDEN
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Many thanks for the interesting extracts from Pikes Report. I have often wished to get hold of it and never yet succeeded so he actually made a measurement of the highest peaks and not a bad one either, It would not be difficult to determine the highest - he ascended on his route up South Park - There is a plain bridle road from South Park settlements over to the Arkansas; the divide being not difficult. California Gulch and Cache Creek on tributaries of the Arkansas on the bridled route I was very anxious last season to take this route to Pikes Peak but was not. It is hardly probable that Pike or any of his party crossed the range at this late season of the year - all the streams mentioned will apply well to the upper S Park affluents of the Platte. I have a rough sketch of the topography of Pikes Peak, will send when I return home. Do you hear from Prof. Case I see he has commenced some sections which are published in the Rocky Mt. News. Have I gotten a note from correspondence with mine. I enclose you notes rec'd from Hale. please return to Hale

Rec'd Feb 12 14
Ans Feb 13

Davenport July 9th 1863

My Dear Dr

Enclosed I send
continued list of names by Gray.
sent through Hale nearly complete
the list

What is 480 (Asclepias)?

Do you notice any thing different
in 468. than Asclepias?
Gray overlooks and includes
Ind Pam; at which Hale
gets excited. (see enclosed.)
The remark of Hale that
Pam was mistaken (meaning me)
in saying that. Pam; yours
in Tuft. is a miss of the
Critic. It does you in bunches
though. The manner learned from
is generally single stems & single
flowers

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S. Kay concludes to make
my 274 Nala (450) a one s/.
(as you first suggested)

You will be amused at the
enclosed. Specimen (Hallian) and
the card on which he has 7 of this
Species. I have several such
but I don't keep them on file
I hope the Provost Marshal
has not interdicted your
writing — Jack Case has
met with my luck in breaking
his detached thumb in trying my
to untie the column of quercus
knocks Quoad as bad as Rock
How do you find the mean
of his 80 as compared with
mine? Do they vary the result.
much? I have written to Jack Case
to correct his instruments with Low water
mark on the Platte mouth of Cherry Co
also to make a triangulation measure
of Long's Peaks.

Sincerely Yours C. C. Parry

Rec'd Feb 20th
Ans March 5

Davenport Feb 18th /63

My Dear Sir

It seemed good to hear from you once more & to know you are still prying in the shade of Pines — & about S. flexilis, my specimen with ripe cones and unde veloped terminal buds, were from a rather stunted specimen. to show the position of the cones at maturity, in more thrifty specimens the terminal bud is developed further, on some of the specimens by looking closely you will find the scar left by the fallen cones of the two previous years. "cones" at a sort of joint in the stem which will give you the measure of each years growth. Where there is a plain scar near the top of a lately grown branch. A short

when a female flowers had been prematurely developed. and thrown off — I noticed. that those trees that grow at the lowest elevations. rarely develop perfect cones. and seeds., which seem to require a more alpine station,

I fear you will have to wait till next growing season for male flowers of A Canadensis I have none, & no recollection of how they look — plenty of cones at your service —

My last year collection (the bulk of it—) is in keys hands sold out to Hall — Some few duplicates I have on hand. but I think you were supplied with a full set at least of those new to this (last) season. If you can indicate any particular ones you would like I will see how far I can supply them. I have plenty of Primula Parryi could send you 6 to 10 specimens &c &c

Hall says he sent you a specimen of Helianthella collected exclusively by me at foot of Pikes Peak. Gray writes that if not H. Douglasii it must be new. —

A dark flowered Asclepiad? also sent by Hall, what is it—? I have no settled plan for next season. I propose to try to go to Nevada. if 20 subscribers could be found willing to advance $50. each perhaps if nothing better offers I may — make a short trip late in the season to secure material of that Stephan? and get seeds & living plants.

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Abies grandis - leaves seem to be variable. but I find no marginate ones. There is a remarkably long broad leafed form near Soda Sk. foot of Pikes Peak. which Fremont alludes to in his account of his Springs. I neglected to put Specimens —

Hall sent me nuda 397 for Chamæthila - a blighted specimen of Juncaria frigida!!! I sent it back —— with ???!!! —

I sent you a few days ago Gray's final list — do you notice. he makes me 394 a nov sp of Woodsia —

I hope we shall be able to get that barometer matter settled up soon — My photographs are not yet taken - waiting for — Write me —

Yours &c

C. C. Parry

Rec'd March 29 /63

Ans — 31

Davenport Mch 26th/63

My Dear Dr

You must allow me to be a prompt correspondent to answer questions before they are asked any last including map, which enlighten you as most of the points referred to I make some additional pencil marks as you suggest

I do not notice in your list some Observations July 18th Limit of Trees on Range West of Benton Pass —

I omitted here they are from my note book

July 18th 11½ A.M. 1953'96 Th Ther 5'2 Deg F. 44,5°

" 1 P.M. 1959'8 " 5'11,5" " 47. —

1816.5 feet

These were satisfactory Observations and a good point for reference —

The Observations June 25 & 26 "Head of ~~the~~ Gulch" were not actually at the head of that stream but the 1st point where the road comes near it — the extreme sources is inaccessible & must be much higher

I do not notice any discrepancies from one point to another (i e water running up hill.) but the Obs July 17th "Nichols. Aves Mesquite." This is in Empire city and the probable height by reference to Observations at Station 50, would be 8620 nearly instead of calculation 8765 ft. So I think had better be excluded.

Empire city is on a prolonged slope from the water level of Clear Cr So that the principal part of the town site would be not much different from Station 50 which is 1¼ miles West near the bank of the creek not more than 6 ft above the water level Thus showing a fall of 104 ft in 1¼ miles

Lundstrom's Mill was near my stationary Cabin and not far East of Station 50. The difference of level as per calculation 45 ft must be very close. The Mill being on the N slope of the valley. Deriving its water power from a small branch appropriately named mud Cr having its source in the range near Pancy Peak.—

About Cultivation. of crops. very little is done except along the main Platte, or at the base of the Mts. rarely some sunny nook in a sheltered valley is planted with potatoes turnips. beets radish and what the Yankees call "garden Sass".— In the Platte valley Corn wheat barley oats. pumpkins tomatoes &c are raised by irrigation also at the foot of the Mts when a stream can be conducted over alluvial flats &. The actual limits of these articles may be set down at between 5000 and 7000 ft.— Potatoes turnips &c were raised meagerly in Empire city

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Say 8500. ft — Above that elevation
were potatoes are poorcarrots.
a small patch near my cabin
Lundstroms mill 8738. were cut
down by frost Aug 4th — turnips
do better — What are termed
"Ranches" scattered through the
Mts. are simply grazing farms
and hence you see frequently the
sign board. Ranching down here
means always taking care of
stock — The grass is good far
up on the alpine slopes. and
subsists in the upper part of
Middle Park — but on the
rocky slopes lower down scanty
& brushy —

No room to write more now
So our good friend Short is gone
you writes, what is done with his
fine herbarium? I have sent
Send Case & portables there by
private hand left to day with
Thomas by express. So Abies alba has
actually turned up Yale

C. C. Parry

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Rec April 20th

Davenport April 16th 1863

Mr Asa Gray

Dear Sir

I have been quite busy gardening of late, hence have made rather brief acknowledgments of your favors. I send enclosed with this some sketches of L. frigida made at my request by a lady friend. Which please criticise, and return (if you wish keep one.) You will notice a want of botanical knowledge in the analysis &c but I think with a little training could be made a good botanical artist. I shall set her to work on Primula Parry, and you see, making the necessary dissections &c. She colors very nicely. I wrote to Dr Gray some time ago in reference to a nice colored copy of Hooker Icones fillamine which I have proposing to sell, and just proceeds in a more useful selection of systematic works — he says [illegible] to Shaw, Eaton or D.C., so as the former is the nearest, may I ask you to negotiate with him and see if he would be inclined to buy at a considerable deduction from the original price. The copy is perfect and without a flaw I would sell it for $75:2 the 1st cost here I think $125:2 I picked it up some years ago

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in N Y. —

I am still in hesitation about a trip this season. I wrote to Jos Sankey of Smyrna to go out with him. his answer is would like to have me but no vacant place yet. I have also thought of trying still another trip to Colorado. intending to join parties at Denver in seeds & living plants. take one associate and go through in a light one horse wagon - cause round & pick up what I can. - secure Thos Shepherd & I sometimes shoot Thus by combining several things I might make it pay moderately - for instance get complete sets of the pines. including sections of wood &c 100 or more living plants! such as Rubus deliciosus Get Shaw to do something according to your proposition to secure Thos Shepherd. &c &c &c I would not care to start before 1st June and would calculate to collect only new or rare plants - depending more on seeds - & living plants What do you think of it? I want to hear from Jewl Case about settling up that boarder business. I will send you some plants towards payment and ballance in cash as soon as I can work things round. to see how the account stands Young I hear has been sick but is improving

Sincerly Yours

E. E. Parry

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Clev.d May 22
Ans May 31

Davenport May 20th 73

My Dear Dr

Yours of 15th inst to hand
and also Copy of instructions.
Sorry to admit some justice
in your animadversions. for
alas! I am neither systematic
nor industrious, and probably
what Asa & Jo would call
"Costive" I see no remedy
but for you to keep diligently
use your weapon !!! without
mercy —.

Owing to unexpected good news
from my seeds. I have pretty
much concluded to go again
but cannot — Cann on account
of business engagements before
middle of June. hoping
still to carry out the programme
I unfolded to you in my
late letter

If I go that Chart will stand a chance of completion from more definite data than I now have — Can it be that you have not a specimen of wood + bark of P. flexilis? If had me laid out expressly for you. and will look again to see if it is mislaid — I dont see how or when I could say the wood was hard as in this particular it differs more materially from P. aristata. the latter being tough and almost imperishable the withered trunks an dfrom exposures preserve their knaled + knotted form giving an uncanthly feature to the landscape — the wood of P. flexilis is remarkably soft + spongy (see shaving) but — am I saying too much?!

I should like to get what copies of Extracts you may have to spare. and as you furnish some of my correspondents 20 will answer with perhaps 10 plates additional, and 2 or 3 full copies of Transactions for public libraries, Please send bill of the cost including postage if you think best to send by mail — I will settle up our ballance as soon as I get returns from Dr Jay.

When do you get the name Pinus albicaulis by 209? Do you hear what luck Shaw has with the seeds.; whether the pine seeds have germinated? Can seems to have quit Staten since his removal. though he has now a detatched Therm which I sent him.

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When I go I must redeem
the Barometer, & Comp A to the
Ad. & Lang: Peck
& Send from to add to
the Nuphar?

Sincerely Yours

C. C. Parry

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Rec'd June 11th
Ans July 31st

Davenport June 5th 63

My Dear Dr. Engelmann

You may
have thought from my silence
that I was often again. but not
so — on each side head on
alternate — I received your
Mar 5th with packet of papers
for which thank you. — For the
latter was I am sure I have
fighting against a cold febrile
attack which culminated in
an eruption said to be measles
I am now better, but languid
and unemployed to any Exertion
of mind or body.
I have been trying to lay
hands on a letter of yours
containing account of what I
owe you. but do not find it

Please hunt it up once more & I will send you an order on Dr Engl. for the amount to settle up ——

The seeds realized, net proceeds £72.—12.!!!
This converted into greenbacks will make quite a pile.
Sorry Shaw lost his primins.
I have P. cristata now putting out 2nd leaves. The 1st sets are as you mention rose color. P. flexilis has G. seed leaves, all came up quite promptly here.

I wish I was off now near foot & hoof but my arrangements still hang. I have made proposals to Sereno to join me but all decline. The last is loss as a capital ornithologist & a grand fellow. but I fear & the season is now advancing at least for new botanizing. From all I can learn the season is also forward & prospects of dry season and scanty snow, & also frequent murders on unfrequented routes. This would not frighten me but rather others me from starting out alone.
It is possible therefore that I may postpone for another season and go early enough to secure the boreal forms on the other side of the ranges. The road from Empire City to Salt Lake is being opened and in another season would give good facilities for work on near mountains.
But I can't quite give up for this year.

Yours &c
C. C. Parry

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Davenport Ia, [illegible]

Rec'd Aug 28th
ans Oct 2d

My Dear Dr

June 1 31st Dak
many a month has be
lying one side. All the time
I resided at Davenport early
to announce my departure
for Lake Superior. Some
preparation being made to me
parties here to examine
some lands up there. but
the thing fell through & was
dropped so I am not taking
enclosed you as I hope
on the Contrary there
is reason why
Elsewhere This season —
in regard to some observations
on the lateral function of
female inserts you may
to your list P. Edulis.
P Contorta. S. Torr Species

note of the fact in both cases and bore it in my specimens of P. Edulis show it—

It is my present intention to go out next Spring earlier than usual & fix & get over the range so as to secure the vernal forms in Middle Park — Valley of Grand &c. I have partly made arrangements with an excellent taxidermist to go with me. he will also try & do something in the bird line for L'Conte — I dont yet know of that Nuttall yet ready to have it remain unnamed for another year! —

I have a good correspondent in Empire City Capt Geo F Packard there is a tree of Douglas spruce growing close to his door. he calls it "Hemlock Spruce" the wood and specimens of the male flowers but I expect to be on hand there myself. wait-!!

I am trying to straighten out our botanical nomenclature in my head. I cant quite fix A. salicifolia I have as single specimen of A. decandra collected in 1847. I have also A. Nuttallii from McCosin What was that — single flowered Scandens? sent me by Hale I collected the flowers & the fruit — both unripe on foot Pikes Peak I know by the Rocky Mts now that they are having an unusual dry season so perhaps as well I did not go

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That cross of Rosa alba
is very nice, as the characters
constant. Shortened sepals
margins ? & scales
You must be having
his vacation now & do not
hear from him
I shall be quite satisfied
to settle with you by the $50. =
put to your credit & you
Do you get the proceedings
of California Academy ?
What do you think of
making a new genus out
of Fatsia. and calling it
"Fatsiamthum" Kellog ? &
botanical missionary &
say I needed out there
I hope you will stick to pure
or they will stick to you
like they get done

Sincerely Yours
C B Parry

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Mus Stat. N.C.-B
Cov. Nov 15

Davenport Oct 27th 1881

My Dear Dr

Don't like keeping me with you
for nine days, and I must make the best
of it. Received also on Monday, and the
cones are plain enough. they must be from
the St Louis valley but I have no distinct
recollection of the trees. had not been named
at that time to look. it may be found in
the Rocky Mountains north. but probably associated
with other Eastern forms. as A. candicans &c
& Torreyi P. deflexa. I have no specimens but
I have always regarded A. a. a recognized species
& Mr Sargent & have I met in California collected
by Veatch & Hooker called it P. Benthamiana.
which I believe is a synonym of P. ponderosa;
& Newberry. It differs from our Rocky Mt species
in being quite constantly 3 leaved, and not having
that peculiar yellowish brown bark. but then
again in the Rocky Mts we have the P. ponderosa
often 3 leaved. in fact I tried to distinguish
2 species in Colorado but could find no constant
characters. There doubtful California pines
P. tuberculata, Coulteri. &c are pure fabrications

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made out of mountains or twisted arms. — I remember Lobb, speaking quite savagely about them Now you have got to the nut pines. I shall expect something rich, — I note the great difference in leaf specimens. Pinus Sabiniana & Colorado the track locality of the former is the 1st granitic range of the Sierra Nevada, on route to El Paso elevation 5000 to 6000 ft. It was my first acquaintance with what we all look for, our P. edulis. I dont think I have a cones long to late in the season. they are dwarfed, packed up & grassed &c. The tree was of a stunted straggling habit or almost bushy — with long spreading branches close to the ground rarely in tuft clusters. P. edulis in Colorado was a short stocky generally quite symetrical tree the largest specimens 12 to 18 inch diameter & 20 ft high — I have fully concluded to go out to Colorado next season & shall make a first towards Salt Lake. will also get a measurement of Longs Peak. I wonder has been got an estimate for measuring heights by the vapour test. Compact & not very expensive I am told. More anon

Yours, &c C. G. Pringle.

Rec'd Nov 28th

Davenport Nov 25th/63

Dear Dr.

Yours 15th rec'd with enclosed
Bot. memoranda &c (returned)
duly received. I do not expect
to emigrate yet to that pinetum
region. So spoke among.
That table is very interesting
I have copied it entire for
further reference. What a country
That Tibet must be only think
of living under an atmosphere as
light as the summit of Mt Blanc
I send you leaves - & am glad
variety is P. flexilis - from the
Rocky Mts. What do you say
about it. Is P. ponderosa typical
to make a new sp: "Parsonsii"?
and to spreading itself?
Fraseri may have got the
specimens of P. Edulis. Parryana
north than the Lambertiana. but

I should not think it strange to find Pedalis down there. Every one ought to know as he got all the material from the different collections in my location. Look of Pike Peak the farthest north that Pedalis has been observed. I did not see it again after leaving that locality going north towards Denver.

About Barometer. I would like very well to take out another to be left at Denver for a permanent station, and use the other for explorations, a cheaper one would answer with a smaller scale at Denver & then by comparison could check any errors in the other instrument. I think I could arrange it to get the cost of a new instrument paid for out then of contributions. I now have financial operations. They have a University there, and a building lately finished I understand and I could make such a representation to them interested as would induce them to get a complete Meteorological apparatus perhaps the Smithsonian would go halves at any rate I can feel like advancing the cost of a barometer & 2 persons for them. I will see that you get your money back. I have lately written to Case to learn what he is doing and if he wants his barometer taken off his hands. I shall hear again soon. I should think some standard or another would be desirable could one of the small Kew ones be used for that purpose? And I will tell you about a standard

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in Rocky Mt news. a correspondent of theirs tried the boiling point with a common Thermr. on a high peak at the head of Blue River. found the boiling point 178° F in referring to Jacobs table I find that this would take us nearly to the top of the Himalayas. So the Rs worthless —

Now I get from that Authority so it will have to be left like I have it I suppose — That pound of mine Mr Menocks that called on you to learn my address has lately fallen heir to a large estate in N. England, he has promised to come & see me this winter. and I must get a work on his specimens from Sempstress purposes.

Yours

C C Parry.

Rec'd Jan 23rd

Davenport Jan 20th/64

My Dear Dr

Yours of 11th inst found me in the Sudy engaged in packing away furniture &c as I made arrangements to rent my house to a family who move in., we staying with them till I am ready to leave for the Mts. Mrs P. goes East in a few weeks to spend the Summer. and So I shall be free to move as soon as the roads will admit — I have partly made arrangements for an outfit from here but not fully determined on certain points. But the matter is sufficiently settled So that the barometer question may be decided and I will therefor be glad to do so for the purpose. and learn the selection of instrument &c &c & when you I shall want a portable case. and I think best to take at least 5 of the

I have been in Chicago for a week —

Memphis Okla

I send

small portable Thermometer, which will be good in case of accidents & if any overplus can readily be sold at cost I shall not need extra tubes or mercury as the ones now there are I presume safe and available You may therefore if you think best order directly

I wrote to Case since I last wrote you & received answer that he was still in Denver, acting as Clerk in a revenue office realizing enough to pay running expenses. He expected to dispose of the Barometer to a friend of mine who would make good use of it in living at Central City — I am in hopes I shall be able to regulate matters so as to get a good permanent station to refer observations to —

My friend the Revd name — George J Merrick has address

Thrundike Mass. I have given him a letter to Dr Gray who will nurse him up

That letter of Brewers is very interesting I wrote to him immediately and directed him to San Diego localities & urged the sending on of specimens to you & Dr Gray and requesting him to send me as full a set of alpine plants & pines in exchange for Rocky Mt sp as he could included in the plants sent to you —

We are getting a good range for Pinus flexilis I have no doubt of Douglasii but Picea Engelmanni grows there too. but under what name? I fear A Williamsoni will yet make you a synonym —

I have not had time yet to read carefully Lyalls sketch his flora appears meagre compared with ours though including some

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Characteristic autumn Species
I write return it soon

Pinus Ponderosa in the Rocky
Mts is almost in variable 2
found the three leaved variety
was the variety —

I should be much tempted to
come down to St Louis for
a few weeks if I was not afraid
of being swamped by Expenses
or if I knew would let me come
out in the garden — It is my
intention at present on returning
from the Leaves sick to go
East + spend the winter + good
part of it between Cambridge
and N Y. Dr Gray asks them to
to keep a sharp look for his crocus
+ your leaves I return Brewers
letter with thanks. he writes funny
and I hope will have an acquisition
How about that cold snap in St Louis
— 28°.7 was our minimum. I shall be
more at leisure now + will write fully

Yours sincerely C C Parry

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Ans: Febr 6th
Ans March 6th Davenport Feb 2d 1864

My Dear Dr

I am ready to show
the P. ponderosa fight. by taking both
sides of the question. My Specimens
Purposely selected to illustrate the facts
shown 1st Specimens exclusively
4 leaved which is the common
form in the Mts west of Denver
2d Other specimens also exclusively
3 leaved otherwise undistinguishable
from the former
3d Specimens containing fascicles
of both 2 & 3 leaves. But the
3 leaved most numerous —
Of these sets only the Cotton bags
full grown cones attached
1st Set young cone just developing
2d Set simply a branch to show the
inflorescence
By referring to my Early Knuckles
notes when I first saw the Mt pine
I have noted. The 3 leaved variety as

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P. rigida and referred to the 2 leaved sp as something new to me the peculiar pale brown smooth bark of older specimens struck me as singular and characteristic I have feel considerably inclined to adopt Newberrys views & call all varieties of P. rigida (Pacific R R rep Vol VI pg 38. Botany) perhaps this middle ground of the R. Mts will give the data for solving this. Look again & see if you can find 2 leaved fascicles in your collection - no danger of confounding with P. contorta the cones of the latter are so marked - I have also been looking over our Abies Fraseri. and according to Newberry. our Rocky Mts species must be rather A. amabilis the "dark purple" cones and very thick steeple shaped. spines. Silvery leaves - and dense growth of cones massed on the upper branches seem to distinguish it. Though quite possibly we may have both species out there. Have you material on hand to make out a satisfactory diagnosis?

Once more my opinion is strengthened that my A. Engel. is Newberrys A Williamsonii. his description of the tree its alpine habit & figure, agree well I should regard the crested scales on old cones only as an accident perhaps due to excessive dryness But Brewers specimens will solve this

I am glad you have ordered the barometer - it looks like work - I must see about coming down to St Louis or sending for it when steamboats get running I should feel strongly tempted

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN & ASA GRAY

I am sorry Dr. Torrey
can not be with us and
join me this evening
in December 4th
as we planned
at present
the Heads & Assistants
for the Herbarium
and I can then
The Patterson case
in the Eastern circuit
will not
[illegible]
Yours truly
I am Yours
in haste
Asa Gray

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Rev. Mank 18th
Aug — 20th

Davenport March 15th 1864

My Dear Dr

I have yours of this month. The
non receipt of any thing out of you just now decides me not to
go to St Louis this Spring. So after you have
made the necessary comparisons with the barometer
in case no good opportunity offers by safe private hand
please send by Express in the original package
if you think best to go by Steam boat. have it
put on a through boat of the Northern line in special
charge of the Captain or Clerk, and marked in
Care of James M Dalziel Davenport Iowa

I am not very sanguine in regard to that
rare flowered Opuntia. near Soda L/c. I should certainly
have noticed any thing so striking. Knowing every foot
of the ground. I think however there are varieties
of the Rocky Mt species having a slight pinkish
tinge. and judging from Distinctly red. Hall has had
very little acquaintance with Cacti. and I remember
he was wonderfully pleased with the 1st flowering specimen
he saw. I will however as you request look often
this. as it is also rather probable I shall visit
that locality again this season. and will also observe
in other analogous localities where the common Opuntia grows

then knock the pegs from under Neeberg's two
bridges (the accelerometers). but if they are only
wooden ones it is no matter that A. Williamsii
must be a new species. If anything resembles
A. Eastern Congener — I am quite curious
to see how the Mt. genuine specimens of A. Williamsii
will strike you. It is a shame that Torrey has
not given us the means of solving that point
before now — We have had a nice time with
a visit from Prof Agassiz: he gave 3 lectures
in this vicinity on glaciers in which I was
most interested. — he has given me some special
instructions in regard to observation of glacial phenomena
in the Rocky Mts. and says he has no doubt. I
shall be able to give the Mt account of glaciers
in the R. Mt. he says I looked for it right,
must examine at the foot of the perpendicular
accumulations, look for moraines &c — if I come
any where I shall doubtless see them at the foot
of Longs Peak — when I intend to make the most
thorough & zealous observations I shall expect to
start as soon after 1st of August as the road will
allow from my outfit nearly completed, and leave
to experience the "mountain fever". I am glad you are
going to lecture. I wish you could come into a Professor
Chair & Drop the practice of medicine
Sincerely yours
J. C. Parry

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec'd March 24th

Decatur Mch 21st/64

My Dear Dr

Here is my manuscript
ished w/h as well as I could
under the circumstances. Though
far from satisfactory, to myself
I have put in the Elevations
either in pencil or left blank
so that you can add the correct
ones. If there is time I might
add another paragraph on the
Character of the Snow accumulations
in the Rocky Mts. absence of glaciers
&c. I have also made sketches
that might be worked up here
outline view of Mammoth Peak
I have also rough sketch of
Topography of Long Peak and
Estes Park. If you think best
I can work them out if you write
back and send to you to be

Dressed ch for the refresh

Let me hear from you soon

I hope to have more leisure in

a week or so

In haste

Yours

E. C. Sandy

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Recd April 16th
Ans May 7th

Davenport April 13th/04

My Dear Dr

Close on the heels of yours of 7th inst comes "Coffee" and contents all safe also a few days before by mail Thanks, as usual "smashed into a cocked hat" — I think it is useless to try & send such things by mail. The hatchings & stampings they get on the way ensuring their destruction. So my outfit Meteorologic I have with me One Barom. 3 Therms and the old barom & one Therm out there. I hope to make good use of them. Did you have any difficulty in taking your barom. and cleaning mercury? Let us know your success, would it be wise for me to try & recharge the one often. comparing it with its present condition — ?

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Saml Case has an appointment lately as Engineer on Pacific RR
If they give me any show I will try to work with them that is if Watson I can get to travel together

Well Brewer gives us quite a blast on Californian Pines. but not much light on the doubtful ones. Those dead collectors have a vocabulary of their own and have made great confusion their great object being "to give the English least" and sell at big prices I shall write to Brewer when he can find me in the Rocky Mts - ing & persuade him to stay some time. or can Torrey Compare notes and I will then turn him over to you. to be put through an Exhausting process - Get your pumps ready I wish he had stopped in half a cone - A Williamsonii. You observe the recognyes two forms and the reflexed scale of Mexicana not constant. I think I would be willing to bet even that it is the same as ours. The locality & association with P. flexilis. is decisive. I expect to start next week if the road will let me. so if you have occasion to write for two weeks to come, direct to Omaha Neb. Ter after that to Denver

I think in the early part of the season I shall skirt pretty thoroughly along the base of the Mts from the Arkansas to above Long's Peak and if possible cross the range to secure the vernal flora of Middle Park which is said (not by botanists however) to be rich & different from the Eastern slopes - The season is also later. June corresponds to May. In this way I hope to make a fine collection through the season. and get some more general views of distribution & range &c

You will hear from me again or write before leaving if anything special occurs

Sincerely Yours C. C. Parry

P.S. Rec'd April 16th

I had the enclosed ready for mail when I got yours of April 8th
I have the barometer now set up for observations, at an observatory where they keep a regular set of obs.s Their Barometers however read only to hundredths will have them compared for a day or two. I am much obliged for the very useful suggestions you send & will refer to them when I get in the field — I expect to start in a very few days from the 16th inst I will write you again in a few days. I have just been standing for Photograph. with my peaceable weapon slung on my shoulder which send you me on the express condition that it will bring you in return from the A.P. Journal Nation. I have a P.O box here and any mail matter not needed on my journey will find a safe place

21

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I shall try & do something in
Todea & buy despite the
high price of Alcohol — Now that
get the Specimens wile we should
be willing, to fork the bill —
Would it not be a good plan
for Saxman to tax Botanists
Say all imports over a dozen
species? Do you agree?

Yours

B. C. Parry

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Rec'd June 18th.
Ans July 6

Boulder Co. 30 miles N W from
Denver June 6th 1864

My Dear Dr

I am sure that
you will be surprised at not hearing from
you at Denver. I arrived there
Sept 4 and found on June 3d just
6 weeks from Davenport
I send you a copy of my barometric
record en route to this place
— often as possible I set up my
barometer in the exact spot
where the Std one was. for the
sake of comparison. The station
at Denver is different but on
the same level. I called to
see Genl Cook but he was not
at home is now there in the
western surveying claims may meet
him. The Std Barom is now in the
hands of a Mr Howard of Central city
who is making I understand regular
observations. I shall go up there

as soon as I can with my barometer & compass. mine works very satisfactorily but the mercury is again much oxydized I am here 30 miles from Denver working my way toward foot of Longs Peak I am now only 12 miles from Osborns lake the locality of Peat my principal guide. Its location as far as I can learn is quite elevated probably between 8 & 9000 ft I shall go up there this week probably too early to find it in flower. but I hope subsequently forward to give some light on its character. I am sure that I shall make a summer quarters in the Rocky mountains the Snowy range and study thoroughly the topography of Longs Peak & vicinity I understand there are many lakes near its base, and a number of grassy parks I may have to learn the settlements as much of the country back of there is deserted at present rich in minerals

Now & during the whole spring the country is flooded with copious rains which has made vegetation very luxuriant, but has raised all the creeks taken away bridges & made most of the R.R. road impassable The great flood of May 19th in Denver was occasioned by a terrific storm of 36 hours continuance on the Divide between the waters of the Platte & Arkansas. This as you will remember is a somewhat elevated upland according to my observations last year 7560. ft above the sea and 2200 ft above Denver Its position & timbered character renders it a natural position for condensing aerial currents from the SE & SW Those who experienced its direct effects say it was not a rain but a continuous deluge of water alternating with hail the latter falling to the depth of

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a foot or more. Then changing to
rain enough to set every thing afloat.
I can't get no definite account as
to the amount of water fallen
but it must have been enormous
several feet. The body of water
seeking its natural channels, filled
them with a booming flood, sweeping
every thing before it. It reached Denver
at midnight, and the next morning
Bed y Cheyenne. Then built up with
stores & buildings, received the first
shock which damaged up the water
spreading it on either side over the
entire bottoms & then carrying everything
before it into the Platte. The destruction
was complete, and several lives lost
I shall stay & get some more definite
particulars of this storm the 1st opportunity
When I decide on a summer location
I will write again & in the mean time let
me hear from you at Denver I shall
send you male flowers of Picea Douglasii the
first specimens. A long letter from Suksdorf
wishing me to collect the Alpine lichens. Some
good time

Yours truly C C Parry

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Rec'd July 14th
Ans — 22

Mt Vernon. July 3d 1814

My Dear Sir

I came to Denver last week &
found your letter of June 8th I am now as you
perceive at my old station at the foot of the
Potts. I enclose Barometric Obs the Data including
2 Sets (one complete) of lunar Variations
At Denver I heard that Mr Howard, who
had the obs barometer, which I have not
yet seen, was about to dispose of it to
Governor Gilpin, who wanted it for
an Exped'n into New Mexico. I would
like of course to see it & make comparisons with
before it goes. If you & Lieut Kearney
it and will use it properly it may be
a good change. and give us more Points
to determine. but I have not much
confidence in Gilpin & fear he may
take the Observations to suit him.
peculiar views, or break the instrument
I should try & see him before he leaves
and if he has the barometer give him
some advice and request that the
Observations be sent to you for
Computation &c

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I expected to have seen Howard before this and given him a good scolding for not sticking up his instrument & observing at Central City — which he might have done as well as not, but he is tired - with Claim Speculations - Expected to get rich. and so puts Science to one side - We are now waiting a chance to get into The Hills - both the bridges are taken off - and it is very difficult to travel in any direction even on well established roads - We would to get up to Empire City & get over to Middle Park. Then about 1st August start for Long's Peak. I fear I shall disappoint you in regard to Make ft of A Douglasii. The 1st I saw was too Early and now it is too late unless I can catch it at high Elevations. Can't do much in Botany. but pick up a few things at the foot of the Hills. Specimens are small now. but no signs of D. nuttalia. Here about I will write again when I get near the Range

Yours Truly

C. C. Parry

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Rec'd Dec 2d
Ans Jan 11

Carlsruhe Nov 29th 1864

My Dear Dr

You perhaps wonder at my long Silence, but to explain it in brief. I have been very busy with outside matters, again my seeds and part of my Collections that I left on the Missouri was lost on the journey. — Have however I have every thing except the wood Sections, which were shipped from Denver by Ox Train, and may be some months a'rriving now I am ready for packing. but you have not told me yet what to put up for you, or whether you wants any seeds &c &c
The Potamogetons & Calatriches are ready waiting to get under your Eye Nuttall also in a shape to answer your Enquiries I hope

A letter from Dr Gray sent to Empire City — and forwarded has come to hand reporting on some plants sent from Middle Park, including Eriogonum pauciflorum Townsendia Hookeri Aquilegia Lisiuta Astragalus pubentissimus and a new sp of Lupinus.

Now I shall be putting some things together for you and as soon as I hear again from you will pack & forward. I have had several applications for seeds among them Mr Meehan of Germantown asks to send $50,00 Also Parsons & Co. from Flushing L I. ask for list & prices &c I shall pack the bulk of seeds this week for England but it will be some time before I make out my sets of Alpine plants

My roots look well also seedling Spruce. Which I have just put into warmer quarters next Spring I shall bring out my roots of Primula Pauciflora and expose them to an atmosphere

alpine climate in Lakes to get some blossoms. Thompson has had flowers this season from my seed but thinks them rather unmanageable. Now write soon if it is a scolding letter. and let me know what to send you

Yours &c

G. P. Peck

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Rec'd Jan 11th
Ans Jan 13th

Davenport Jan 7th 1865.

My Dear Dr

At length I have packed and forwarded you by express. some of the meagre results of last years collection I hope you will find the Nuphar material full & sufficient & complete for description. &c I have three specimens to fill with should you want any seed. they can be sent by mail. My living plants are still stored away in the cellar. I have mislaid somewhere a short catalogue a curious printed "Seriatim" like E. acuta, but with the petals 4 parted like E. proliata. when I come to hand, will enclose in a letter. I have been very busy with my new duties as School Superintendent and have not yet commenced putting up sets of all our plants,

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The wood sections have not yet come to hand, and may be lost. Seeds sent to Dr Gray

Let me hear from you soon. I will find time to answer some of those Q's & not too thick

Sincerely Yours
C. C. Parry

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Rec'd March 9th
Ans'd same day

Davenport March 6th 1861

My Dear Dr

Your long silence is getting quite inexplicable. Have you nothing to write about or are you too busy? I have just been from Brewer intimating that you had been here and certainly you might take some thing of interest to tell them. What is the Species that the book for P. flagellis, and is he described in Silliman Journal or Rev. Tate? What about Hallowell and the Louse Thing? ???

Well at last after a 5 months voyage comes to hand my wood Sections generally in good order. I am now having

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them sliced up, and must send you a set. Some of them look very nice. viz *A. Engelmanni*, *A. Mexicana*, *A. Parryi*, *A. Lechuguilla*, and *A. Applegatei*, but I fear I shall not be able to secure good sections of *A. Lechuguilla* & *A. Palmeri* as also from that they will answer to show the peculiarities of structure you like & look for. By some blunder or rascality there was a freight charge of $36.00 on the box which will take off the profits on I shall have by 100 sets to dispose of. So I shall have to ask $1.00 for the set, but will supplement your set of second with the best I can. The prospect now is of the Mexs opening and I shall have a chance to send down the barometer perhaps I may and I hope to be on friendly hand, or had I better box it up again & undertake in the long run wood sections, would share as anyone else went a set? Please advise me soon about these matters. I am writing off my articles on last year's Explorations. Shall not be very elaborate or perhaps interesting, my time is so much taken just now with School matters. When will you want the articles for publication. Had I better send you one of my outline sketches of Long's Peak. as these had to be dressed up.

I have also outline sketches of the different Peaks. that might be of some use

I have been late, very disconnected [illegible]

Have at me here. How much
more the Gardener pays for
and at Mrs Seavers. Then in the
Notes
Send a check about the
10th Peaks Discovered by
Telegraph Survey last season
how could they have been
discovered? What about
the alpine flora of Sierra Nevada
Has Gray added anything to
Rocky Mts? Let me hear
from you soon & know what
you are about

Yours

C. C. Parry

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Davenport. March 15th 1865.

Rec'd March 16th

My Dear Dr

Your long silence has been broken at last by a very interesting budget of news. That Dr Asa Gray's visit was enough to make you "jump" in its unexpected salutation. Strange that Newberry should not have given some clue to his relationship. But then he was so busy, bridging the Continents! — but then as that sp related to the northern form Abies Mertensiana! So our Picea Engelmanni remains yet unsyngenized —

You must have seen the account of Explorations in the Southern Sierra Nevada in Dec. No Silliman's Journal &c &c

the short notice of a new pine on page 11. struck me at once as applicable to P. aristata. It would however be still more interesting if it should prove only an allied sp. My specimens however show that the awns are quite fragile and rarely remain on mature cones.

I am well prepared to accept your conclusion that P. albicaulis is P. flexilis the cones being so variable in size according to location and the pale color of the young bark not unfrequently having a distinct whitish aspect.

As to P. pungens I hardly know what to say. I never could trace any fixed relation between the variation in the leaves and other distinctive characters either of cones, or sex the fact that the 2 & 3 leaved fascicles occur on the same branch proves that it is not a character to be relied on. Still the trees look different in California. From the Rocky Mt sp and you know Torrey made a new sp P. mitis a MacBoy out of the form met with in Southern California.

Glad to hear that P. Jeffreyana is turning up in collections.

My wood sections are now all dressed up and ready to send if I will send you set whenever you say so. but I infer. there will be no chance to dispose of more than 1 yr. Most of the specimens look well but there is a difference in the cones. The prospect that my seeds sent to England will sell badly. They have an idea that the species will not prove perpetual but it is my impression that in England especially will prove a fine acquisition. and Fairbairn

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and P. flexuosa. will be desirable
Please have surgical habit & have
Training made & Granth. I send
you a slip sent to me by Dr Gray
Shaw.) that the seeds from impaled
trees are not likely to succeed
He wishes the slip returned to
him. Well I have my manuscript
nearly ready being a narrative of
last Seasons explorations &c. It
does not suit me very well but
the best I can do. I will also
send you what sketches and maps
I have to accompany it. If they can
be dressed up a little in shape
for transaction I am very busy
and must get this matter out of
the way. for the present Tell D
[illegible] me less men. will send
manuscript probably in a day
or two

Yours Truly

C. C. Parry

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Rec'd June 16th
Ans — 25th

Davenport June 13th 1866

My Dear Dr

Yours of 6th to hand
I had almost lost sight of you. I have
been busy too. pretty much used up with
school matters. which does not agree
with me as well as climbing.
Without doubt Hayden's plant is the
same sp. as mine. I see no essential
difference. the color being variable &
not very shocking. N. polyscephalum
I should prefer to the other. as a good
characteristic name.
I must send on your wood Sections
this week so long delayed. I have
done nothing with them yet. I think
some of taking a trip to the Sea board
this vacation which lasts through
July & August What do you make
out of Brewer's specimens? I should
like 20 extra copies of the papers
including 5 pulp copies of Transactions
I am expecting returns from my
seeds sent to England. How do

not sell well. realized £30.— only
Please let me know how our
account stands. The Barometer has
been lying idle lately. If it would
suit you as well, I would send you
the barometer at settlement of our
account, or keep it and remit
ballance. I am more in want now
of a good microscope than any thing
else. Do you hear from
Schott. in Yucatan?
Well we have peace at last, but
the Indians, are still troublesome
Torrey I hope is having a good
time in Cal[a]. I suppose of
course he will go & see the
Big trees. Let me know about
the printing. Do you get a figure
of the Stapelias.? I expect to leave
here 1st week in July

Sincerly Yours
A. Gray

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Rec'd July 3d

Davenport. June 29th 1865.

My Dear Dr

Yours of 25th rec'd with
Enclosure. Your figure of Nuphar polysep.
was as far as I can recollect quite
unnatural. The concave sepals give
a globular shape to the whole ff
partly concealing the mass of anthers
and so make it less conspicuous. and
showy at a distance view. Except
its larger size and the reddish tint
of the inner sepals not more showy
in its aquatic bed than our common
N Luteum. I am glad to hear that
Fendler goes to Bay as Curator.
just the man I should think
I have been so plagued with School
matters that I have neglected every
thing else. but now near a release
not only for vacation. but permanently.
So I shall go back to Botany again

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as soon as I can take a short
run into Wisconsin. I will look up
Cornus & Viburnum fruit in herb.
and outside. Shall probably see
Lapham. Under present circumstances
Doubtful if I go East at present
I have a big job in overhauling &
relabelling my herb. which is in
great confusion and want to get
Doubtful ones pinned out & studied
or named. I did not quite understand
about the barometer. Thought I was to
pay you. Collamer was as above.
value of specimens sent you. I have
most of my plants still in Lens &
will send whatever you may indicate
as desirable. I will also send you
another set of woods that you can
probably use in exchange. My S.
P. aristata was from the lowest elevation
about 6000 ft. I shall not learn for
2 weeks yet. and will give you an
Wisconsin address before leaving,

Yours truly
C C Parry

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Rec'd Sept 4th
Ans Sept 5

Davenport Aug 29th/65.

My Dear Dr

I have just returned
from Wisconsin, had a good
cool time, in the boat
I saw Lapham spent a day
with him he had been lately
writing you about Viburnum
I send enclosed fresh fruit
of V. lentago. V. pubescens & &
V. Oxycoccus all that came
under my notice. The V. lentago
is common It shall be long deciduous!
the early berry is light green with
a tinge of red turning purple
Have you fruit of V. pauciflorum
I remember seeing them on
the Rocky Mts. very near to
V Oxycoccus

Cornus did not show scarcely an fruit

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I am now busy with my herb
and putting up sets of plants
of 1864 collection;
Let me hear from you soon

Yours

C. C. Parry

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Geneseo Sept 11th 1865.

My Dear Dr

You make such awful and inaccountable lapses!! How can you expect a blind man to follow? I left you guessing on the names of Viburnum. Take a good domestic check when all at once you are lost to view among the bog bushes, good luck to your industrial tastes. My synonyms are with Mr E. I find very few Duncans in my collection. They seem to have been ignored on the Mex Bog. I should like more authenticated what your hand is in — Where do you find characters? is the fruit important? I do not quite understand what you make of Halls 561-562. my 360 but I suppose Sum. D. arcticum Willd

Please send me results as soon
you arrive at them
I received the two papers of Transactions
for which thanks. The remainder you
spoke of sending please forward by
mail. also. bill of the cost.
I like your paper on Asphan but
wished "more so" it had been more
elaborate. with a Synopsis of the genus
its distribution &c. I suppose however
you did all that the material in
your hands would warrant
About Viburnum was the serrate leaved
species I sent you V. Lentago? I
find also great difficulty in distinguishing
that from V. prunifolium. You do
not say anything about the peculiarity
I mentioned in the seed sent the
flat bony nut being dehiscent
after the pulp is scraped off. is that
an important circumstance?
Too late and too hot for me to do
anything in a hurry in the mean time

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I keep it in mind however
It was my impression that Gray
would write out a short paper
containing list. + description of
the additional plants collected in
1864. for St Louis Transactions. If
that was not the understanding
it ought to be published soon in Silliman
or Elsewhere. I must write to him
about it. I wish we had an
exclusive botanical journal. would it
not pay it way. now the war is
over? I have now some irregular
botanical obs. but will make some
more and send you for comparison
I have been waiting for some hand-
hand to send it by to you.
I suppose Gray will give us a
good notice of Hooker Syn. Botany
seems promotive of long life in the
old world at least. I have been
thinking some time of getting in
proper shape a notice of the different

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botanical explorations in the Rocky Mts
&c &c. but the information is very
scattered and hard to collect. I have
only just got a partial account
of T. Drummond's exploration &c
Have there been no German or French
explorers in that region?
I want to buy a sharp mattock
&c. that I can go to Europe, and
spend a year or more botanizing
seeing herbaria. &c
I hope Schott will carry out
his expedition with a whole skin
and buy a vast amount of plants
I am busy sorting out my
plants in sets. I am putting up
a very full set for Bowen to
be sent in exchange for Col. Plants
I do nothing else but botany
now. so you can see how
need to send the Pines till I let
you know

Sincerely Yours

C C Parry

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Rec'd Oct. 25th
Ans'd

Davenport Iowa
Oct 23d 1865

My Dear Dr

I have some business
down at Springfield Ills and
think I may be able to go down
the St Louis on my way home
So you may expect to see me
drop in on you with my baggage
on my back, towards the last of
that week. I wish I had known
it before so that I could have
heard from you before starting but
I have only 24 hours notice
I think I may also drop in upon
my guardian Justice Hall at
Athens Ohio and he on his
Springfield if you have time and
let me know when would be the best
time to come. I cannot stay long
but want to improve the time I may
have

Yours truly C C Parry

Dr Gray has sent for his notes
on my collection 1864, as he is
about to publish a paper in
American Academy including ours
new Cal & Arkansas and will
include my nov. sp.

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Rec'd Nov 14
Ans Nov 21

Davenport Nov 11th 1865-

My Dear Dr

Since reaching home which I accomplished safely barometer and all. I have been quite busy have taken several long trips into the country &c

A letter from Schott in Yucatan Enclosed a specimen of Lysiodium Dendrotobium?, which looks quite different from the Texian species. I must wait to Eaton for his opinion. Schott describes the country as "a vast flat without rivers or mountains" Traversed in Limestone, occasionally quite bare of vegetation. while in other places supporting a rank tropical growth I infer he has not collected plants largely. for lack of apparatus & facilities. Says they are expecting a visit from Emperor Maximillian!

likes the climate pretty well but objects to the bore morals of the Senoritas, and the abundance of priests. So he concludes not to settle there but will return to Washington soon. tells me to address him via Georgetown DC.

A letter just rec'd from Dr Gray contains a late photograph. good but can worse. You will get one too. and probably a good scolding in the bargain for your backwardness in getting your handsome phiz on paper but then you are pledged

I have lately heard of a very extensive herbarium (26 Vol.) confiscated? by a U S Surgeon. in some Southern land who had at least the good sense to save it from destruction. and has now very liberally presented it to a college I shall get a chance to see it this winter. and feel some curiosity to trace out its history

Since I came back from St Louis I have been thinking a great deal about Shaw's Garden. and confess to a greatly increased respect for its founder a man that could so far extricate himself from mercantile ideas. to conceive & carry out such a scheme must have something good at bottom I hope you will succeed to make him alive to still greater liberality but in the mean time we may well be thankful that so much has been done, & well done

I have looked over my Junci since I came back. neither of my specimens of the Nov Sp have fruit but the characters you called my attention to are sufficiently apparent

Gray's new paper on Asiatic is being printed soon out. My new Eriospora Howellii has come to hand from 3 separate collectors in Nevada J

The barometer works well and keeps clean

When you finish Junei where will you light next? More suo. I watch anxiously for you to be Descent !!

Sincerly Yours

C. C. Parry.

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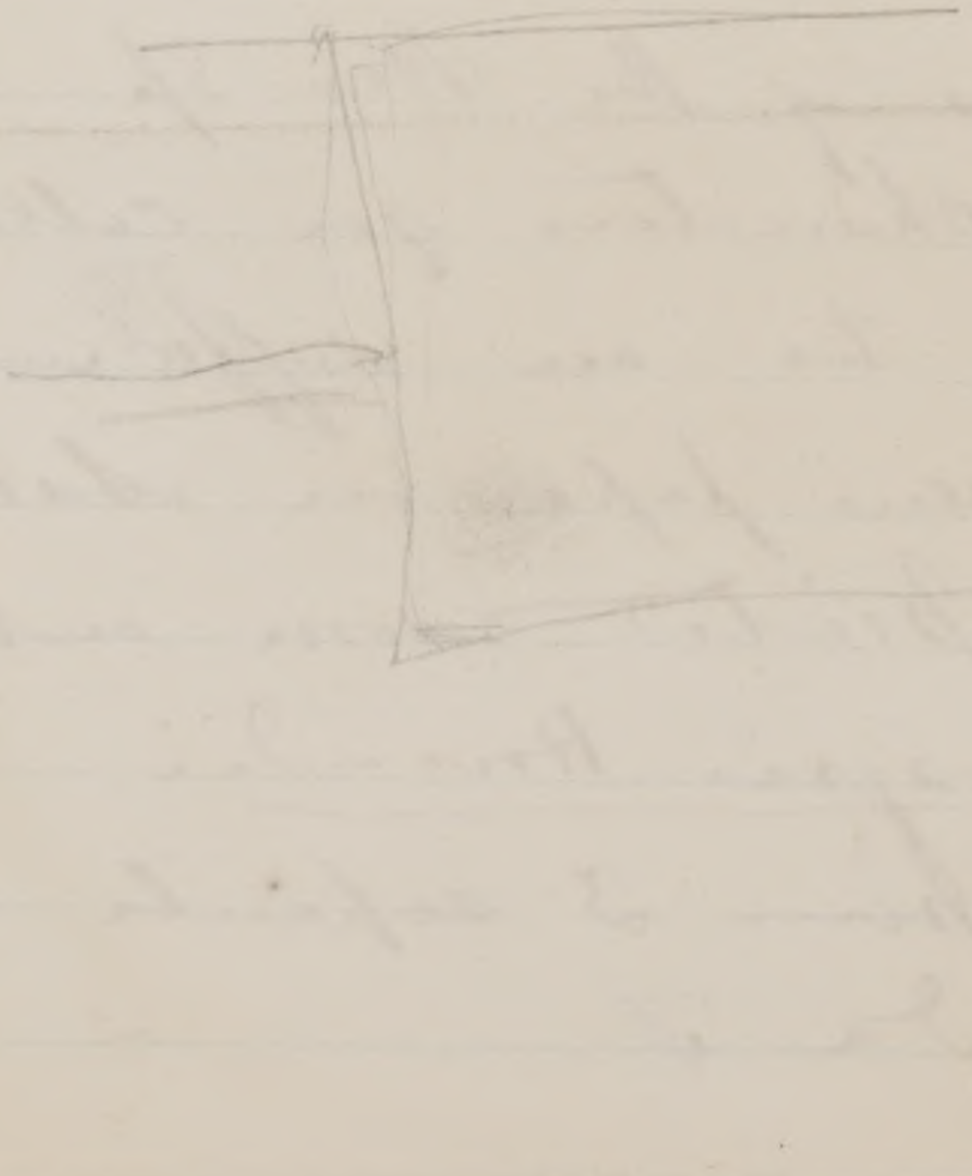
GEORGE ENGELMANN PAPERS



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